Automotive Technology 7th Edition Chapter 107 – Electronic Stability Control Systems Lesson Plan

CHAPTER SUMMARY:



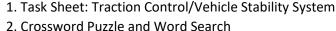
- 1. The Need for Electron Stability Control, and Federal Motor Vehicle Safety Standard (FMVSS) No. 126
- 2. Sine with Dwell Test, ESC Sensors, Traction Control, ESC/TC Diagnosis

OBJECTIVES:



- 1. Discuss the need for electronic stability control (ESC).
- 2. Describe the FMVSS requirements.
- 3. Describe the sine with dwell (SWD) test.
- 4. List the sensors needed for the ESC system.
- 5. Describe how a traction control (TC) system works.
- 6. Explain how to diagnose ESC/TC system faults.

RESOURCES: (All resources may be found at jameshalderman.com)



2. Crossword Puzzie and WC

3. Chapter PowerPoint

4. Videos: (A5) Brakes Videos

5. Animations: (A5) Brakes Animations

ACTIVITIES:



- 1. Task Sheet: Traction Control/Vehicle Stability System
- 2. Crossword Puzzle and Word Search

ASSIGNMENTS:



- 1. Chapter crossword and word search puzzles from the website.
- 2. Complete end of chapter quiz from the textbook.
- 3. Complete multiple choice and short answer quizzes downloaded from the website.

CLASS DISCUSSION:



- 1. Review and group discussion chapter <u>Frequently Asked Questions</u> and <u>Tech Tips</u> sections.
- 2. Review and group discussion of the five (5) chapter Review Questions.

NOTES AND EVALUATION:



